

Nathalie Saint

List of Publications by Year in descending order

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54
papers

2,723
citations

147801

31
h-index

182427

51
g-index

55
all docs

55
docs citations

55
times ranked

2759
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of the Membrane Protein FhaC: A Member of the Omp85-TpsB Transporter Superfamily. <i>Science</i> , 2007, 317, 957-961.	12.6	226
2	Structural and Functional Characterization of OmpF Porin Mutants Selected for Larger Pore Size. <i>Journal of Biological Chemistry</i> , 1996, 271, 20676-20680.	3.4	151
3	Structure and Mechanism of Action of the Antimicrobial Peptide Piscidin. <i>Biochemistry</i> , 2007, 46, 1771-1778.	2.5	135
4	A new mechanism of antibiotic resistance in Enterobacteriaceae induced by a structural modification of the major porin. <i>Molecular Microbiology</i> , 2001, 41, 189-198.	2.5	134
5	Post-translational remodeling of ryanodine receptor induces calcium leak leading to Alzheimer's disease-like pathologies and cognitive deficits. <i>Acta Neuropathologica</i> , 2017, 134, 749-767.	7.7	130
6	NMR Structure and Ion Channel Activity of the p7 Protein from Hepatitis C Virus. <i>Journal of Biological Chemistry</i> , 2010, 285, 31446-31461.	3.4	119
7	Characterization and Ion Channel Activities of Novel Antibacterial Proteins from the Skin Mucosa of Carp (<i>Cyprinus carpio</i>). <i>FEBS Journal</i> , 1996, 240, 143-149.	0.2	97
8	Structural and Functional Characterization of OmpF Porin Mutants Selected for Larger Pore Size. <i>Journal of Biological Chemistry</i> , 1996, 271, 20669-20675.	3.4	92
9	Channel Formation by FhaC, the Outer Membrane Protein Involved in the Secretion of the Bordetella pertussis Filamentous Hemagglutinin. <i>Journal of Biological Chemistry</i> , 1999, 274, 37731-37735.	3.4	88
10	Voltage sensing in the PhoE and OmpF outer membrane porins of Escherichia coli: role of charged residues. <i>Journal of Molecular Biology</i> , 1997, 269, 468-472.	4.2	79
11	Alteration of pore properties of Escherichia coli OmpF induced by mutation of key residues in anti-loop 3 region. <i>Biochemical Journal</i> , 2002, 363, 521-528.	3.7	77
12	Leaky ryanodine receptors contribute to diaphragmatic weakness during mechanical ventilation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9069-9074.	7.1	74
13	Oncorhycin III: a potent antimicrobial peptide derived from the non-histone chromosomal protein H6 of rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Biochemical Journal</i> , 2003, 373, 621-628.	3.7	71
14	Mechanosensitive Ion Channels of the Archaeon <i>Haloferax volcanii</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 12116-12119.	3.4	68
15	A folding-dependent mechanism of antimicrobial peptide resistance to degradation unveiled by solution structure of distinctin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6309-6314.	7.1	68
16	Ionophore properties of OmpA of Escherichia coli. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993, 1145, 119-123.	2.6	66
17	First structural insights into the TpsB/Omp85 superfamily. <i>Biological Chemistry</i> , 2009, 390, 675-684.	2.5	63
18	Channel Properties of TpsB Transporter FhaC Point to Two Functional Domains with a C-terminal Protein-conducting Pore*. <i>Journal of Biological Chemistry</i> , 2006, 281, 158-166.	3.4	56

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19	Antibacterial peptide pleurocidin forms ion channels in planar lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1564, 359-364.	2.6	55
20	Alteration of pore properties of <i>Escherichia coli</i> OmpF induced by mutation of key residues in anti-loop 3 region. <i>Biochemical Journal</i> , 2002, 363, 521.	3.7	53
21	Substrate recognition by the POTRA domains of TpsB transporter FhaC. <i>Molecular Microbiology</i> , 2011, 81, 99-112.	2.5	52
22	A Hexameric Transmembrane Pore Revealed by Two-dimensional Crystallization of the Large Mechanosensitive Ion Channel (MscL) of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 14667-14670.	3.4	49
23	Pore functioning of outer membrane protein PhoE of <i>Escherichia coli</i> : mutagenesis of the constriction loop L3. <i>Protein Engineering, Design and Selection</i> , 1997, 10, 699-706.	2.1	47
24	Sugar Transport through Maltoporin of <i>Escherichia coli</i> : Role of the Greasy Slide. <i>Journal of Bacteriology</i> , 2002, 184, 2994-2999.	2.2	45
25	pH-dependent pore-forming activity of OmpATb from <i>Mycobacterium tuberculosis</i> and characterization of the channel by peptidic dissection. <i>Molecular Microbiology</i> , 2006, 61, 826-837.	2.5	44
26	Palmitoyl-carnitine increases RyR2 oxidation and sarcoplasmic reticulum Ca ²⁺ leak in cardiomyocytes: Role of adenine nucleotide translocase. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 749-758.	3.8	43
27	Ion channel formation by N-terminal domain: a common feature of OprFs of <i>Pseudomonas</i> and OmpA of <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 2000, 190, 261-265.	1.8	38
28	First evidence of the pore-forming properties of a keratin from skin mucus of rainbow trout (<i>Oncorhynchus mykiss</i> , formerly <i>Salmo gairdneri</i>). <i>Biochemical Journal</i> , 2008, 411, 33-40.	3.7	38
29	Role of the constriction loop in the gating of outer membrane porin PhoE of <i>Escherichia coli</i> . <i>FEBS Letters</i> , 1997, 415, 317-320.	2.8	37
30	Functional importance of a conserved sequence motif in FhaC, a prototypic member of the TpsB/Omp85 superfamily. <i>FEBS Journal</i> , 2010, 277, 4755-4765.	4.7	37
31	Type 2 ryanodine receptor: A novel therapeutic target in myocardial ischemia/reperfusion. , 2013, 138, 323-332.		37
32	Omp35, a New <i>Enterobacter aerogenes</i> Porin Involved in Selective Susceptibility to Cephalosporins. <i>Antimicrobial Agents and Chemotherapy</i> , 2004, 48, 2153-2158.	3.2	33
33	Growth temperature dependence of channel size of the major outer-membrane protein (OprF) in psychrotrophic <i>Pseudomonas fluorescens</i> strains. <i>Microbiology (United Kingdom)</i> , 1997, 143, 1029-1035.	1.8	31
34	Antibacterial activity and pore-forming properties of ceratotoxins: a mechanism of action based on the barrel stave model. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004, 1667, 148-156.	2.6	31
35	Replacement of the Sole Histidinyl Residue in OmpF Porin from <i>E. coli</i> by Threonine (H21T) Does Not Affect Channel Structure and Function. <i>Biochemical and Biophysical Research Communications</i> , 1996, 223, 118-122.	2.1	30
36	ANT-VDAC1 interaction is direct and depends on ANT isoform conformation in vitro. <i>Biochemical and Biophysical Research Communications</i> , 2012, 429, 12-17.	2.1	27

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37	The N-Terminal Domain of OmpATb Is Required for Membrane Translocation and Pore-Forming Activity in Mycobacteria. <i>Journal of Bacteriology</i> , 2007, 189, 6351-6358.	2.2	26
38	Structure of the <i>Mycobacterium tuberculosis</i> OmpATb protein: A model of an oligomeric channel in the mycobacterial cell wall. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 645-661.	2.6	24
39	Conformational dynamics of protein transporter FhaC: large-scale motions of plug helix. <i>Molecular Microbiology</i> , 2014, 92, 1164-1176.	2.5	22
40	Channel-forming properties and structural homology of major outer membrane proteins from <i>Pseudomonas fluorescens</i> MFO and OE 28.3. <i>FEMS Microbiology Letters</i> , 1995, 127, 267-272.	1.8	20
41	The antibacterial peptide ceratotoxin A displays alamethicin-like behavior in lipid bilayers. <i>Peptides</i> , 2003, 24, 1779-1784.	2.4	18
42	The <i>Enterobacter aerogenes</i> outer membrane efflux proteins TolC and EefC have different channel properties. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 2559-2567.	2.6	15
43	Influence of the passenger domain of a model autotransporter on the properties of its translocator domain. <i>Molecular Membrane Biology</i> , 2008, 25, 192-202.	2.0	15
44	Dynamic interplay of membrane-proximal POTRA domain and conserved loop L ₆ in Omp85 transporter FhaC. <i>Molecular Microbiology</i> , 2015, 98, 490-501.	2.5	11
45	Respiratory muscle contractile inactivity induced by mechanical ventilation in piglets leads to leaky ryanodine receptors and diaphragm weakness. <i>Journal of Muscle Research and Cell Motility</i> , 2017, 38, 17-24.	2.0	10
46	Importance of the Choice of a Recombinant System to Produce Large Amounts of Functional Membrane Protein hERG. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3181.	4.1	10
47	Crystallization and preliminary crystallographic studies of MOMP (major outer membrane protein) from <i>Campylobacter jejuni</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 2349-2351.	2.5	6
48	Structural and Functional Analysis of the HCV p7 Protein. <i>Methods in Molecular Biology</i> , 2009, 510, 125-143.	0.9	6
49	Identification of a Sesquiterpene Lactone from <i>Arctium lappa</i> Leaves with Antioxidant Activity in Primary Human Muscle Cells. <i>Molecules</i> , 2021, 26, 1328.	3.8	6
50	A Bioassay-Guided Fractionation of Rosemary Leaf Extract Identifies Carnosol as a Major Hypertrophy Inducer in Human Skeletal Muscle Cells. <i>Nutrients</i> , 2021, 13, 4190.	4.1	5
51	EtpB Is a Pore-Forming Outer Membrane Protein Showing TpsB Protein Features Involved in the Two-Partner Secretion System. <i>Journal of Membrane Biology</i> , 2009, 230, 143-154.	2.1	4
52	The abietane diterpene taxodione contributes to the antioxidant activity of rosemary by-product in muscle tissue. <i>Journal of Functional Foods</i> , 2019, 62, 103565.	3.4	4
53	First Structural Characterization of a Bon-Domain in a Protein from <i>Mycobacterium Tuberculosis</i> : OmpATb Tracks toward an Oligomerization Process to form a Cell Wall Pore. <i>Biophysical Journal</i> , 2010, 98, 648a.	0.5	0
54	Altered Ion Channel Properties of Ryanodine Receptor from Heart Mice Lacking Calstabin2. <i>Biophysical Journal</i> , 2014, 106, 125a.	0.5	0